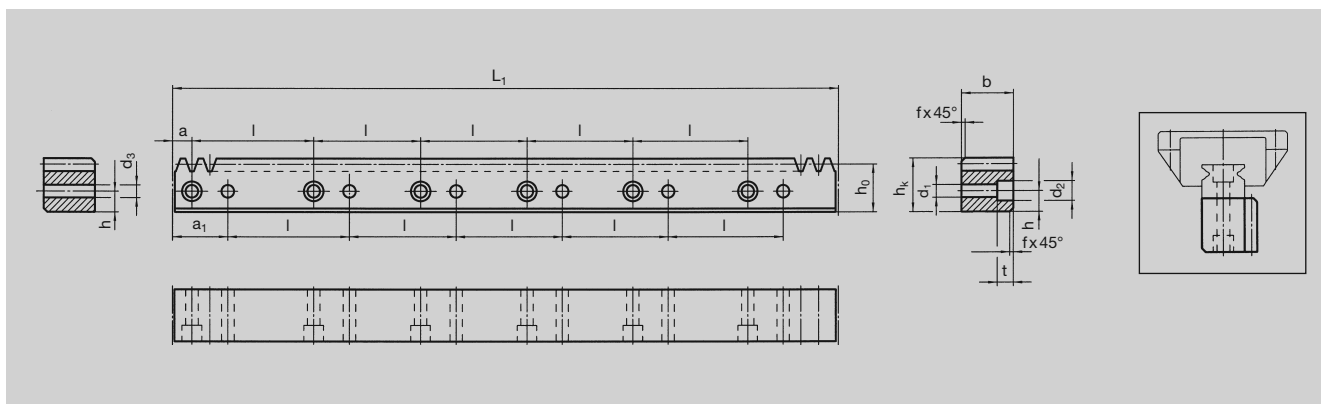




Quality 6 – 90° Version



Order Code	Pitch	L ₁	N° of Teeth	b	h _k	h _o	f	a	l	N° of Holes	h	d ₁	d ₂	t	a ₁	d ₃	kg
49 77 197	5	960	192	19	19.50	17.91	1	10	60	16	7.5	4.5	7.5	5.3	30	4.5	2.7
49 77 187	5	960	192	24	24.50	22.91	1	10	60	16	10.0	6.0	9.5	8.5	30	6.0	4.2
49 97 197	10	960	96	29	29.75	26.57	2	10	60	16	11.5	7.0	11.0	9.0	30	7.0	5.6
49 47 197	13.33	960	72	39	39.75	35.50	2	20	80	12	14.0	10.0	15.0	9.0	40	10.0	10.5

Total pitch error: $GT_f/1000 \leq 0.036$ mm

- Teeth induction-hardened and ground
- Material C45
- Ground on all sides after hardening

Mounting racks see page ZF-2 and ZF-4-5.

To achieve precision rack joints, we recommend our patented rack assembly kit, see page ZF-4.

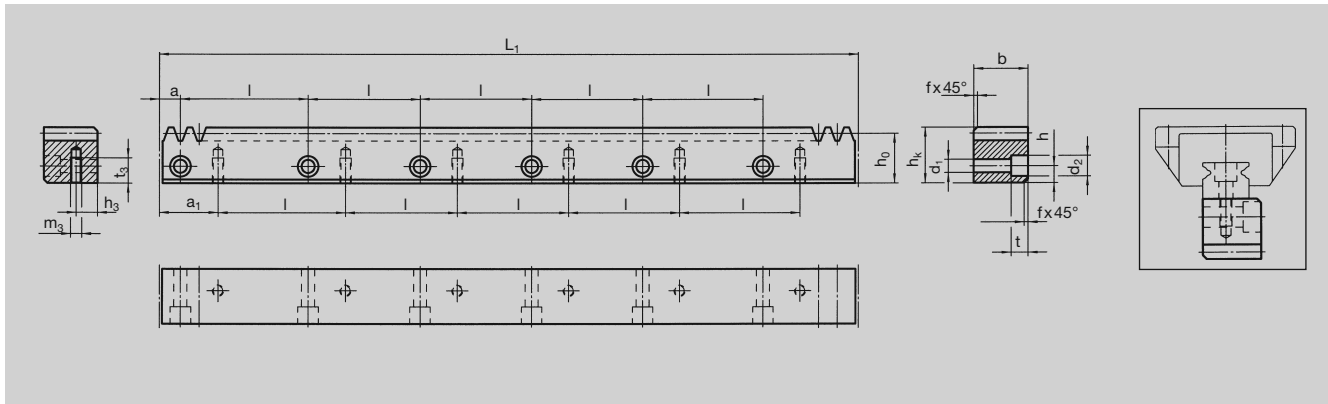
For lubrication of racks & pinions, we recommend our automatic lubrication systems, see page ZE-1.



For the calculation and selection of the rack & pinion drive, see page ZD-1.



Quality 6 – 180° Version



Order Code	Pitch	L ₁	N° of Teeth	b	h _k	h _o	f	a	l	N° of Holes	h	d ₁	d ₂	t	a ₁	m ₃	h ₃	t ₃	kg
49 77 107	5	960	192	19	19.50	17.91	1	10	60	16	7.5	5.8	10	6	30	M4	7.5	8.0	2.7
49 77 117	5	960	192	24	24.50	22.91	1	10	60	16	10.0	7.0	11	7	30	M5	10.0	11.0	4.2
49 97 107	10	960	96	29	29.75	26.57	2	10	60	16	11.5	10.0	15	9	30	M6	11.5	13.5	5.6
49 47 107	13.33	960	72	39	39.75	35.50	2	20	80	12	14.0	12.0	18	12	40	M8	14.0	16.0	10.5

Total Pitch Error: $GT_f/1000 \leq 0.036$ mm

- Teeth induction-hardened and ground
- Material C45
- Ground on all sides after hardening

Mounting racks see page ZF-2 and ZF-4-5.

To achieve precision rack joints, we recommend our patented rack assembly kit, see page ZF-4.

For lubrication of racks & pinions, we recommend our automatic lubrication systems, see page ZE-1.

For the calculation and selection of the rack & pinion drive, see page ZD-1.

